

Pending Claims

This listing of claims is a courtesy copy of the pending claims. No amendments have been made in this Reply.

Listing of Claims:

1. (previously presented) A method for establishing headroom to provide margin in determining available transmit power value for a mobile station operating in a wireless communication system comprising the steps of:
 - determining, by the mobile station, a communication channel variance condition, wherein the communication channel variance condition is at least one of a primary pilot power variance, fading period and fade depth estimate, or a peak-to-average estimate within an adaptive measurement interval; and
 - establishing, by the mobile station, a headroom value based on the communication channel variance condition.
2. (canceled)
3. (previously presented) A method according to claim 1 wherein the mobile station determines a maximum data rate based on the headroom value and sends the maximum data rate to a base station.
4. (previously presented) A method according to claim 1 wherein the mobile station determines a maximum data rate based on the headroom value and sends a rate adjustment request to a base station.
5. (previously presented) A method according to claim 1 further comprising the steps of:
 - detecting a battery condition of the mobile station; and
 - modifying the headroom value based on the battery condition.

6. (original) A method according to claim 5 wherein the step of modifying the headroom value based on the battery condition comprises:
 - determining if the battery condition relates to a low battery level; and
 - if the battery condition relates to a low battery level, increasing the headroom value.
7. (previously presented) A method according to claim 1 wherein the step of determining a communication channel variance condition includes measuring a variance in a primary pilot power.
- 8-11. (canceled)
12. (previously presented) A mobile station comprising:
 - means for determining, by the mobile station, a communication channel variance condition, wherein the communication channel variance condition is at least one of a primary pilot power variance, fading period and fade depth estimate, or a peak-to-average estimate within an adaptive measurement interval; and
 - means for establishing, by the mobile station, a headroom value based on the communication channel variance condition.
13. (original) A mobile station according to claim 12 further comprising:
 - means for determining a maximum data rate based on the headroom value; and
 - means for sending the maximum data rate to a base station.
14. (original) A mobile station according to claim 12 further comprising:
 - means for determining a maximum data rate based on the headroom value; and
 - means for sending a rate adjustment request to a base station.
15. (original) A mobile station according to claim 12 further comprising:
 - means for detecting a battery condition of the mobile station; and
 - means for modifying the headroom value based on the battery condition.

16. (previously presented) A wireless communication system comprising:
 - a base station;
 - at least one mobile station;
 - means for determining, by the at least one mobile station, a communication channel variance condition, wherein the communication channel variance condition is at least one of a primary pilot power variance, fading period and fade depth estimate, or a peak-to-average estimate within an adaptive measurement interval; and
 - means for establishing, by the at least one mobile station, a headroom value based on the communication channel variance condition.
17. (original) A wireless communication system according to claim 16 further comprising:
 - means for determining a data rate based on the headroom value.
18. (original) A wireless communication system according to claim 17 further comprising:
 - means for sending the data rate between the base station and said at least one mobile station.
19. (original) A wireless communication system according to claim 16 further comprising:
 - means for determining a battery condition of said at least one mobile station; and
 - means for modifying the headroom value based on the battery condition.
20. (original) A wireless communication system according to claim 19 further comprising:
 - means for determining a data rate based on the headroom value; and
 - means for sending the data rate between said at least one mobile station and the base station.